

## New Plant Records for the Niagara Frontier

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This brief list embraces, for the most part, some recently discovered cryptogams for this area although the flowering plants have not been entirely neglected. The catalogue of the non-flowering plants of Buffalo and vicinity prepared by David F. Day in 1882 from the researches of Judge Clinton, Mary L. Wilson, Prof. David S. Kellicott and others is the only record we have of these plants except for the work of the scientists at St. Bonaventure college headed by Drs. Hubert Vecchierello and P. Boehner and several small papers by the writer. A complete revision of the cryptogams in this area is desirable and will be undertaken in the near future.

### BLUE-GREEN ALGAE

*Plectonema nostocorum* Born. was collected for the first time in the Delaware Park greenhouse, Buffalo, N. Y. on January 10, 1944 where it was found on wet rocks. All records of the blue-green algae were checked by Dr. Drouett of the Chicago Museum of Natural History.

*Anacystis Peniocystis* (Kütz) Dr. and Daily was gathered in the same place and at the same time as the above species and is listed only for the West Indies by Tilden. It is probably more common than collecting records would indicate.

*Schizothrix lacustris* A Br. was collected on January 1, 1944 in the same situation as the two previous species.

*Schizothrix calcicola* Gom. was also taken in the park greenhouse but on March 12, 1944.

*Entophysalis Cornuana* Sauvag. was taken on January 10, 1944 from the same rocks as the above species.

*Phormidium tenue* (Menegh.) Gom. is common on damp rocks around the fountain in the South Park Conservatory, Buffalo, N. Y. where it was gathered on March 6, 1944.

### LICHENS

Day lists *Cladonia fimbriata* (L.) Fr. as a component of our flora and determinations by Dr. C. W. Dodge of local specimens indicate that we have the varieties *subulata* (L.) Vain. and *simplex* (Weiss.) FW. Both varieties were collected at Wanakah, N. Y., on April 10, 1944.

### LIVERWORTS

*Lophocolea heterophylla* (Schrad.) Dum. has been reported from Genesee

county by Day and from Cattaraugus county by P. Boehner. The writer located it on dead wood at Wanakah, N. Y., Erie county, on April 25, 1944.

#### MOSSES

*Fissidens grandifrons* Brid. is listed in Day's catalogue from Niagara Falls, Niagara county, and from Caledonia Creek, Livingston county. I collected it from wet rocks in the Delaware Park greenhouse, Buffalo, N. Y., Erie county on January 10, 1944.

*Bryum argenteum* (L.) Brid. was reported by Knobloch and Bleekman from Salamanca, N. Y. It is locally common and specimens were gathered from along the creek in Forest Lawn cemetery, Buffalo, N. Y. on October 24, 1943.

#### PTERIDOPHYTES

*Isoetes* sp. was collected along the shores of Chautauqua Lake, Chautauqua county, near Fluvanna on September 7, 1943 but neither Mr. Weatherby nor myself were able to identify the species because of lack of macrospores. Both Clinton and Day found Braun's quillwort in the Niagara river above the falls in the last quarter of the nineteenth century but no specimens have been collected since that time. It is important therefore, to record at least the re-discovery of the genus in this area and further collections will be made soon to clear up the question of the specific rank of our specimens.

#### ANGIOSPERMS

*Streptopus amplexifolius* (L.) DC. is not listed in Zenkert's flora. An atypical specimen was found on W. Kenmore road, Tonawanda, N. Y., on June 25, 1928 by the late Dr. G. C. Hicks which both Dr. Etlar Nielsen and myself think belongs here.

*Microstylis unifolia* (Michx.) BSP. has been recorded for both Erie and Wyoming counties by others but the writer found it in the Allegany State Park, Cattaraugus county, on August 25, 1928.

*Asarum reflexum* Bickn. is rarer locally than *A. canadense*. It has been found previously at North Evans, Erie county, and at Quaker Run, Cattaraugus county. I collected it on Buckhorn Island in the Niagara river on May 30, 1943.

*Amelanchier humilis* Wiegand is listed as rare and from Genesee county by Zenkert in his flora of the Niagara Frontier. Dr. Nielsen identified a local specimen as *A. humilis* Wiegand var. *typica* Nielsen which had been collected by P. Hoffman along Transit road near Buffalo, N. Y., on April 27, 1938.

All of the above specimens are either in the herbarium of the University of Buffalo or in the writer's collection.